

IN THE CLAIMS

This listing of the claims replaces all prior versions of the claims in the application.

1.-22. (Canceled)

23. (Withdrawn) An isolated polypeptide selected from the group consisting of:

- a) a polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-37,
- b) a polypeptide comprising a naturally occurring amino acid sequence at least 90% identical to an amino acid sequence selected from the group consisting of SEQ ID NO:1-37,
- c) a biologically active fragment of a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1-37, and
- d) an immunogenic fragment of a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1-37.

24. (Withdrawn) An isolated polypeptide of claim 23 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-37.

25. (Previously Presented) An isolated polynucleotide encoding a polypeptide selected from the group consisting of:

- a) a polypeptide comprising the amino acid sequence of SEQ ID NO:37,
- b) a polypeptide comprising a naturally occurring amino acid sequence at least 95% identical to the amino acid sequence of SEQ ID NO:37, and
- c) an immunogenic fragment of a polypeptide having the amino acid sequence of SEQ ID NO:37.

26. (Previously Presented) An isolated polynucleotide encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:37.

27. (Previously Presented) An isolated polynucleotide of claim 26 comprising the polynucleotide sequence of SEQ ID NO:74.

28. (Previously Presented) An isolated recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 25.

29. (Previously Presented) An isolated cell transformed with a recombinant polynucleotide of claim 28.

30. (Previously Presented) A method of producing a polypeptide encoded by a polynucleotide of claim 25, the method comprising:

- a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide of claim 25, and
- b) recovering the polypeptide so expressed.

31. (Previously Presented) A method of claim 30, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:37.

32. (Previously Presented) An isolated polynucleotide selected from the group consisting of:

- a) a polynucleotide comprising the polynucleotide sequence of SEQ ID NO:74 ,
- b) a polynucleotide comprising a naturally occurring polynucleotide sequence at least 95% identical to the polynucleotide sequence of SEQ ID NO:74,
- c) a polynucleotide completely complementary to the polynucleotide of a) over the entire length of the polynucleotide of a), and
- d) a polynucleotide completely complementary to the polynucleotide of b) over the entire length of the polynucleotide of b).

33. (Previously Presented) An isolated polynucleotide comprising at least 60 contiguous nucleotides of a polynucleotide of claim 32.

34. (Withdrawn) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 32, the method comprising:

- a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and
- b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.

35. (Withdrawn) A method of claim 34, wherein the probe comprises at least 60 contiguous nucleotides.

36. (Withdrawn) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 32, the method comprising:

- a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and
- b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.

37. (Withdrawn) A method of screening a compound for effectiveness in altering expression of a target polynucleotide, wherein said target polynucleotide comprises a polynucleotide sequence of claim 27, the method comprising:

- a) exposing a sample comprising the target polynucleotide to a compound, under conditions suitable for the expression of the target polynucleotide,
- b) detecting altered expression of the target polynucleotide, and
- c) comparing the expression of the target polynucleotide in the presence of varying amounts of the compound and in the absence of the compound.

38. (Withdrawn) A method of assessing toxicity of a test compound, the method comprising:

- a) treating a biological sample containing nucleic acids with the test compound,
- b) hybridizing the nucleic acids of the treated biological sample with a probe comprising at least 20 contiguous nucleotides of a polynucleotide of claim 32 under conditions whereby a specific hybridization complex is formed between said probe and a target

- polynucleotide in the biological sample, said target polynucleotide comprising a polynucleotide sequence of a polynucleotide of claim 32 or fragment thereof,
- c) quantifying the amount of hybridization complex, and
 - d) comparing the amount of hybridization complex in the treated biological sample with the amount of hybridization complex in an untreated biological sample, wherein a difference in the amount of hybridization complex in the treated biological sample is indicative of toxicity of the test compound.

39. (Previously Presented) A microarray wherein at least one element of the microarray is a polynucleotide of claim 43.

40. (Withdrawn) A method of generating an expression profile of a sample which contains polynucleotides, the method comprising:

- a) labeling the polynucleotides of the sample,
- b) contacting the elements of the microarray of claim 39 with the labeled polynucleotides of the sample under conditions suitable for the formation of a hybridization complex, and
- c) quantifying the expression of the polynucleotides in the sample.

41. (Previously Presented) An array comprising different nucleotide molecules affixed in distinct physical locations on a solid substrate, wherein at least one of said nucleotide molecules comprises a first oligonucleotide or polynucleotide sequence completely complementary to 20 contiguous nucleotides of a target polynucleotide, and wherein said target polynucleotide is a polynucleotide of claim 32.

42. (Canceled)

43. (Previously Presented) An isolated polynucleotide comprising 20 contiguous nucleotides of a polynucleotide of claim 32.

44. (Currently Amended) An isolated polynucleotide of claim 25 ~~[[23]]~~ encoding a polypeptide comprising an amino acid sequence at least 95% identical to the amino acid sequence of SEQ ID NO:37 encoded by an allele of SEQ ID NO:74.

45. (Previously Presented) An isolated polynucleotide of claim 32 selected from the group consisting of:

- a. a polynucleotide comprising a sequence of an allele of SEQ ID NO:74 at least 95% identical to the polynucleotide sequence of SEQ ID NO:74,
- b) a polynucleotide completely complementary to the polynucleotide of a) over the entire length of the polynucleotide of a).